



### CLASS-VII

**(ENGLISH)**

## English Project for class VII

**Design a project on the topic “The Spider and the Fly” in channel file including the points given below :**

1. Write a brief summary of the poem.
2. Write about the poet.
3. Central idea of the poem.
4. The message you get from the poem.
5. Write the literary terms used in the poem.

Support with necessary pictures & drawings

## Reading Section

### What causes the monsoon?

The monsoon, which is essentially the seasonal reversal in wind direction, causes most of the rainfall received in India and some other parts of the world. The primary cause of monsoons is the difference between annual temperature trends over land and sea. The apparent position of the Sun with reference to the Earth oscillates from the Tropic of Cancer to the Tropic of Capricorn. Thus the low pressure region created by solar heating also changes latitude. The northeast and southeast trade winds converge in this low pressure zone, which is also known as the Inter tropical Convergence Zone or ITCZ. This low pressure region sees continuous rise of moist wind from the sea surface to the upper layers of the atmosphere, where the cooling means the air can no longer hold so much moisture resulting in precipitation. The rainy seasons of East Asia, sub-Saharan Africa, Australia and the southern part of North America coincide with the shift of ITCZ towards these regions.

Read the questions and choose the best option from the given below:

Q1: Monsoon is

- |                        |   |
|------------------------|---|
| (a) A type of sea wave | (b) a seasonal reversal in wind direction |
| (c) very hot wind      | (d) very cold wind                        |

Q2: What is the full form of ITCZ?

- (a) Inter trance Convergence Zone  
(c) Inter tropical Capricorn Zone

- (b) Inter tropical Convergence Zone  
(d) Inter tropical Conveyance Zone

Q3: The major cause of monsoon is the

- (a) difference between annual temperature trends over land and sea  
(b) difference between day and night temperature  
(c) moisture in the atmosphere  
(d) None of these.

Q4: Low Pressure region is created by

- (a) solar heating (b) lunar cooling (c) moist wind (d) dry wind.

Q5: It rains when

- (a) moist wind goes down (b) dry wind meets moist wind  
(c) the air can no longer hold moisture resulting in precipitation  
(d) annual temperature goes down.

### Writing section

Write a letter to the SP, Jamtara Police, Jamtara, complaining about excessive pollution caused by bursting of crackers during Diwali and Kali Puja.

### (HINDI)

1. इतिहास की ऐसी महिलाओं के शौर्य और वीरता के बारे में बताएं जिन्होंने क्रांतिकारी गतिविधियों में अपना योगदान निडर होकर दिया जिनमें रानी लक्ष्मीबाई, सरोजिनी नायडू, सावित्रीबाई फुले का जीवन परिचय देते हुए चित्र बनाएं।

2. प्रतिदिन एक (1)पृष्ठ लिखावट लिखें।

3. विद्यालय में 10 दिन की छुट्टी के लिए प्रधानाचार्य को पत्र लिखें।

### (SANSKRIT)

आप दीपावली और छठपूजा कैसे मनाये।

इस परदस-- दसपंक्तियां संस्कृतमें लिखें।

नोट --- (सचित्र चार्ट पेपर पर)

### (MATHEMATICS)

#### Mathematics Homework and Project for Class VII

1. The dimensions of a rectangular field are  $(4.1X + 5.6Y)$ ,  $(X + 1.5Z)$  units. Find the area of that field.

2. Find the product,  $(3x + 12y^2)(5 + 2xy + x)$

3. Solve and verify  $(3x - 7z) \cdot (2y - x - 1)$  with these values,  $x = 0.1$ ,  $y = -2.5$ ,  $z = 2$ .

4. Find the area of a triangle whose height is  $6x$  unit & base is  $14y$  unit.
5. Find the product,  $(1+x^2+y)(2x+z)$ , and verify the answer for  $x=1, y=3, z=-2$
6. Find the product  $(4.1X + 5.6Y)(1.2XY - 3Y)$  and write all the coefficients.
7. Find the product  $(3x+2)(5+2xy+x)$  and write number of terms after multiplication.
8. Factorise  $ax + ay - bx - by$
9. Factorise  $a^2 + 2a + ab + 2b$
10. Factorise  $a^2+bc + ac + ab$
11. Find H.C.F of the terms and factorise:
  - a.  $16m - 4m^2$
  - b.  $8x^3y^2 + 8x^3$
  - c.  $x^4y - 3x^2 y^2 - 6xy^3$
  - d.  $3a^2b^2 + 6ab^2c^2 + 12 a^2b^2c^2$

#### PROJECT:-

**(a) To get a median of a given triangle from any vertex by paper folding and to verify that in a triangle, medians pass through a single point.**

**(b) To get an altitude of a given triangle from any vertex by paper folding and to verify that in a triangle altitudes pass through a single point.**

#### **(SCIENCE)**

A. Fill in the blanks.

1. The term acid has been derived from the Latin word \_\_\_\_\_.
2. Sulphuric acid is often known as the \_\_\_\_\_.
3. Chemical name of marble is \_\_\_\_\_.
4. \_\_\_\_\_ is the main cause of yellowing of TajMahal.
5. Litmus is obtained from \_\_\_\_\_.
6. Salts do not conduct electricity in their \_\_\_\_\_ state.
7. Naturally occurring acids are called \_\_\_\_\_ acids.
8. Bases, which are \_\_\_\_\_ in water, are called alkalies.
9. \_\_\_\_\_ salts are formed by the reaction of a weak acid and strong base.

10. \_\_\_\_\_ acid is present in apple.

B. Answer the following questions in brief.

1. The concentrated acid must always be diluted by adding acid to water slowly and not by adding water to acid directly. ----- Why?
2. How can you test if a substance is an acid or a base without tasting it?
3. Write any real life applications of acids and bases.
4. If you accidentally spill a concentrated acid, what should you do?
5. Why do some fruits taste sour when they are unripe, but become sweeter as they ripen?

### ➤ **Project Work:**

Make a model of 'sand clock' and draw the diagram on a chart paper. You may use the following materials:

- \*Two clear plastic bottles (same size)
- \* Sand (fine-grained)
- \* Cork or rubber stopper
- \* Drill
- \* Hot glue gun
- \* Hot glue sticks
- \* Marker

# Everyone must mention your name, class, section, roll number.

## **(SOCIAL SCIENCE)**

### Homework

1. Suggest four ways to help people affected by devastation caused due to Tsunami.
2. What steps should be taken to prevent loss of precious marine life. Write five points.
3. Describe the development of art and architecture under the Vijaynagar rulers.
4. List the achievements of Mahmud Sawan as the Prime minister of Bahmani kingdom.
5. Describe the relationship between advertising and democracy.

### Project work

Prepare a small working model of ocean currents over a thermocol sheet.

**OR**

Design a timeline chart showing major dynasties and rulers of Sultanate Periods